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CHRISTOPHER MEIKLEJOHN

- education** Ph.D., Software Engineering, Carnegie Mellon University, *expected 2022*.
Transferred from Université catholique de Louvain to Carnegie Mellon University in August 2018.
- B.S., Information Technology, Northeastern University, 2009.
Summa Cum Laude, Sigma Epsilon Rho Honor Society.
- A.S., Computer Science, Community College of Rhode Island, 2006.
- research internships** Research Internship, Microsoft Research, Redmond Lab, 2019
Project: *Deterministic replay with algebraic effects*.
Mentor: *Sebastian Burckhardt*
- Research Internship, Microsoft Research, Redmond Lab, 2018
Project: *Stateful programming with serverless architectures: shipped as Azure Durable Entities*.
Mentor: *Sebastian Burckhardt*
- Research Internship, Microsoft Research, Redmond Lab, 2017
Project: *Transaction support in Orleans: shipped in Orleans*.
Mentor: *Phil Bernstein*
- invited talks** “Distributed Erlang: From Datacenter Applications to Planetary Scale Applications.”
Keynote, Erlang '18
- publications** *Conferences*
- Christopher Meiklejohn, Heather Miller, Peter Alvaro, “Partisan: Scaling the Distributed Actor Runtime” *ATC '19*.
- Christopher Meiklejohn, Vitor Enes, Junghun Yoo, Carlos Baquero, Peter Van Roy, Annette Bieniusa “Practical Evaluation of the Lasp Programming Model at Large Scale: An Experience Report” *PPDP '17*
- Christopher Meiklejohn, Peter Van Roy, “Lasp: A Language for Distributed, Coordination-Free Programming” *PPDP '15*
- Workshops*
- Christopher Meiklejohn, “Partisan: Enabling Real-World Protocol Evaluation.”
APPLIED '18
- Christopher Meiklejohn, Heather Miller, Zeeshan Lakhani, “Towards a Solution to the Red Wedding Problem” *HotEdge '18*

- Christopher Meiklejohn, Peter Van Roy, "Towards A Systems Approach To Distributed Programming" *OBT 18*
- Christopher Meiklejohn, "On the Design of Distributed Programming Models" *PMLDC '17*
- Christopher Meiklejohn, "A Certain Tendency of the Database Community" *Salon de Refusés '17*
- Christopher Meiklejohn, Peter Van Roy, "Loquat: A Framework for Large-Scale Actor Communication on Edge Networks" *SmartEdge 2017*
- Borja Arnau de Régil Basáñez, Christopher Meiklejohn, "Dynamic Path Contraction for Distributed Dataflow Languages" *AGERE 2016*
- Seyed H. Haeri, Peter Van Roy, Carlos Baquero, Christopher Meiklejohn, "Worlds of Events: Deduction with Partial Knowledge about Causality" *ICE 2016*
- Paulo Viotti, Christopher Meiklejohn, Marko Vukolić, "Towards Property-Based Consistency Verification" *PaPoC '16*
- Christopher Meiklejohn, "Declarative, Secure, Convergent Edge Computation" *OBT '16*
- Christopher Meiklejohn, Seyed H. Haeri, Peter Van Roy, "Declarative, Sliding Window Aggregations for Computations at the Edge" *EdgeCom '16*
- Christopher Meiklejohn, Peter Van Roy, "Selective Hearing: An Approach To Distributed, Eventually Consistent, Edge Computation" *W-PSDS '15*
- Christopher Meiklejohn, Peter Van Roy, "The Implementation and Use of a Generic Dataflow Behaviour in Erlang" *Erlang '15*
- Christopher Meiklejohn, Peter Van Roy, "Lasp: a language for distributed, eventually consistent computations with CRDTs" *PaPoC '15*
- Christopher Meiklejohn, "Eventual Consistency and Deterministic Dataflow Programming: A Case Study of Integrating Derflow with the Riak Data Store." *LADIS '14*
- Manuel Bravo, Zhongmao Li, Peter Van Roy, Christopher Meiklejohn, "Derflow: Distributed Deterministic Dataflow Programming for Erlang" *Erlang '14*
- Russell Brown, Sean Cribbs, Christopher Meiklejohn, Sam Elliott, "Riak DT Map: A Composable, Convergent Replicated Dictionary." *PaPEC '14*
- Christopher Meiklejohn, "On the composability of the Riak DT map: Expanding from embedded to multi-key structures." *PaPEC '14*
- Christopher Meiklejohn, "Riak PG: Distributed Process Groups on Dynamo-style Distributed Storage" *Erlang '13*

industrial
experience

Consultant, Core Tech, Manticore, Adobe, 2018.
 Consultant, Senior Systems Engineer, Veritas, 2017 - 2018.
 Consultant, Distributed Systems, Comcast, 2016.
 Independent Contractor, Distributed Systems, Mesosphere, 2016.
 Senior Software Engineer, Core Platform, Machine Zone, 2015 - 2016.
 Senior Software Engineer, Basho Technologies, 2012 - 2015.
 Software Engineer, Swipely, 2010 - 2012.
 Web Programmer and Systems Administrator, Artists House Music, 2008 - 2009.
 Software Engineering Manager, Berklee College of Music, 2008 - 2010.
 Software Developer and Systems Engineer, Berklee College of Music, 2006 - 2008.
 Senior Systems Engineer, Conversent Communications, 2000 - 2006.
 Technical Support, IDS World Network, 1998 - 2000.

service

Program committee
 SE-Config '19, PPD '19, Erlang '19, PMLDC '17 (*chair*), PaPoC '17, PMLDC '16 (*chair*),
 Erlang '15, DEBS '15.
 Curry On '15 - '19.
Google Summer of Code
 BEAM Community '16
Teaching Assistant (UC Louvain)
 Languages and algorithms for distributed applications. [LSINF2345 (Spring '17)]
 Cloud Computing. [LINGI2145 (Fall '16)]

funding
awards

MOBILITY Fellowship, Université catholique de Louvain, 2016.
 Erasmus Mundus Joint Doctorate Fellowship, 2015.

summer
schools

Heidelberg Laureate Forum, 2016.
 PLISS '17, ECOOP '13, OPLSS '13.